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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/539,215	01/17/2006	Jonathan Lightner	7896-71314-07	5991
<sup>74051</sup> Klarquist Spark	7590 04/15/200 <b>man.</b> LLP	EXAMINER		
121 SW Salmor	n St., Floor 16		MCELWAIN, ELIZABETH F	
Portland, OR 97204			ART UNIT	PAPER NUMBER
			1638	
			MAIL DATE	DELIVERY MODE
			04/15/2008	PAPER

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/539,215	LIGHTNER ET AL.
Office Action Summary	Examiner	Art Unit
	Elizabeth F. McElwain	1638
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>04 F</u> This action is <b>FINAL</b> . 2b) ☐ This     Since this application is in condition for allowatelessed in accordance with the practice under B	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4)  Claim(s) 1-11 is/are pending in the application  4a) Of the above claim(s) 9-11 is/are withdraw  5)  Claim(s) is/are allowed.  6)  Claim(s) 1-8 is/are rejected.  7)  Claim(s) is/are objected to.  8)  Claim(s) are subject to restriction and/o  Application Papers  9)  The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplication and policination and policination and policination and policination is objected to by the Examine 10. The drawing(s) filed on is/are: a) accomplication and policination and policinatio	n from consideration.  or election requirement.  er.  cepted or b) □ objected to by the I	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	•	· · ·
Priority under 35 U.S.C. § 119	Naminar Note the attached emec	7.6.1617 67 161117 7 6 762.
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicati ority documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 7/31/06;4/6/07.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal F 6) Other:	ate

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### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election of Group I, claims 1-8, in the reply filed on February 4, 2008 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 9-11 are withdrawn, as drawn to a non-elected invention.

# Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 4. Claims 1 and 6, and claims 2-5, 7 and 8 dependent thereon, are indefinite in the recitation of "high oil phenotype relative to control plants" and "altered oil content phenotype relative to control plants", given that it is unclear what is encompassed by "control plant" and the specification fails to set forth the metes and bounds of this term.

## Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 7. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li et al (US PGPub 2002/0078475 in IDS) taken with Harper et al (US PGPub 2002/0160378).
- 8. The claims are drawn to a transgenic plant comprising a plant transformation vector that is comprising a nucleotide sequence that encodes or is complementary to a sequence that encodes a citrate synthase polypeptide comprising the amino acid sequence of SEQ ID NO: 2 or an ortholog thereof whereby the transgenic plant has a high oil phenotype relative to control plants.
- 9. Li et al teach optimizing plants for seed oil production by transforming a plant with a gene encoding an enzyme in the beta-oxidation pathway, including citrate synthase (see paragraphs 16-17 of the Detailed Description, for example).
- 10. Li et al do not specifically teach an isolated gene encoding citrate synthase activity.
- 11. Harper et al (SEQ ID NO: 1553) teach a nucleic acid sequence encoding a citrate synthase having 87% sequence similarity to a nucleic acid encoding SEQ ID NO: 2.

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12. Given the recognition of those of ordinary skill in the art of the desirability of producing a transgenic plant having a high oil phenotype by transforming a plant with a gene encoding an enzyme in the beta-oxidation pathway, such as citrate synthase, as taught by Li et al, it would have been obvious to use the method of Li et al and to modify it by substituting the citrate synthase coding sequence taught by Harper et al, which would be considered an ortholog of the citrate synthase of SEQ ID NO: 2. Thus the claimed invention would have been prima facie

obvious as a whole to one of ordinary skill in the art at the time it was made, especially in the

No claims are allowed.

absence of evidence to the contrary.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth F. McElwain whose telephone number is (571) 272-0802. The examiner can normally be reached on increased flex time.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571) 272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**EFM** 

/Elizabeth F. McElwain/ Primary Examiner, Art Unit 1638